P005

## IN THE CLAIMS:

- 1. (Canceled)
- 2. (Previously Presented) The optical pulse source of claim 11 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.
- 3. (Previously Presented) The optical pulse source of claim 11 wherein the light source comprises a distributed feedback laser.
- 4. (Previously Presented) The optical pulse source of claim 11 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.
- 5. (Previously Presented) The optical pulse source of claim 11 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.
- 6. (Previously Presented) Thee optical pulse source of claim 11 wherein the Bragg grating is tunable.

## 7-9 (Canceled)

- 10. (Previously Presented) The optical pulse source of claim 11 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the taped signals for adjusting the temperature of the laser.
- 11. (Previously Presented) An optical pulse source to generate RZ pulses at a wavelength λ comprising:

a modulated light source for generating optical pulses of light over an optical spectrum including  $\lambda$ , the source modulated in power and frequency;

a tilted grating tap coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

a feedback circuit responsive to the tapped signals for adjusting the wavelength  $\lambda$  of the light source.

- 12. (Currently Amended) The optical pulse source of claim 11 wherein the tilted grating tap

  Bragg grating comprises a PM (polarization maintaining) fiber.
- 13. (Previously Presented) The optical pulse source of claim 11 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength  $\lambda$  of the light source is locked to an edge of the grating wavelength response curve.
- 14. (Previously Presented) An optical pulse source to generate RZ pulses at a wavelength λ comprising:

a modulated light source for generating optical pulses of light over an optical spectrum including  $\lambda$ , the source modulated in power and frequency:

a Bragg grating having a filter response, the grating coupled to the light source and stabilized so that the filter response is over a range overlapping at least part of the optical spectrum of the source;

a fused fiber PM coupler coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

a feedback circuit responsive to the tapped signals for adjusting the wavelength  $\lambda$  of the light source.

- 15. (Previously Presented) The optical pulse source of claim 14 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.
- 16. (Previously Presented) The optical pulse source of claim 14 wherein the light source comprises a distributed feedback laser.
- 17. (Previously Presented) The optical pulse source of claim 14 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.
- 18. (Previously Presented) The optical pulse source of claim 14 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.
- 19. (Previously Presented) The optical pulse source of claim 14 wherein the Bragg grating is tunable.
- 20. (Previously Presented) The optical pulse source of claim 14 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the tapped signals for adjusting the temperature of the laser.
- 21. (Previously Presented) The optical pulse source of claim 14 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength  $\lambda$  of the light source is locked to an edge of the grating wavelength response curve.

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23. (New) The optical pulse source of claim 14 wherein the Bragg grating and the fused fiber PM coupler are in a single package.